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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/911,392	07/25/2001	Toshiyuki Suzuki	211952US2		
22850 7	7590 02/13/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER		
1940 DUKE S' ALEXANDRI			ADDISON, KAREN B		
			ART UNIT	PAPER NUMBER	
			2834 DATE MAILED: 02/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)	1U				
	09/911,392		SUZUKI ET AL.	V				
Office Action Summary	Examiner		Art Unit					
	Karen B Add	ieon	2834					
The MAILING DATE of this communication a				dress				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a ref - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, eply within the statuto od will apply and will etute, cause the applica	however, may a reply be timey ry minimum of thirty (30) days expire SIX (6) MONTHS from tion to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.				
1) Responsive to communication(s) filed on								
,	This action is no							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) 1-28 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) 14-28 is/are allowed.								
6)⊠ Claim(s) <u>1,2,11 and 13</u> is/are rejected.								
7) Claim(s) 3-10 and 12 is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.								
	Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copies of the priority docume	ents have been	received.						
•			ion No					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dom								
Attachment(s)								
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 		′ =	y (PTO-413) Paper N Patent Application (P					

Application/Control Number: 09/911,392

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 3-10 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 2. Claims 14-28 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: prior art fails to show bumps on the electrically conductive film constituting each of the first and second pads and mounting the piezoelectric resonator on the surface of the substrate and connecting the first pad and second pad to the two terminal electrodes via bumps. Prior art also fails to show a piezoelectric transducer comprising: a substrate and connecting conductors; wherein each of the connecting conductors includes a nucleus and an electrically conductive film adhered to a surface of the nucleus and disposed between the led electrodes.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claims 1-2,11 and 13 is rejected under 35 U.S.C. 102(e) as being anticipated by Yoahida (6247964).

Yoshida discloses a piezoelectric resonator operating in the thickness extension mode in fig. 2-3 comprising: a piezoelectric substrate(2); a first vibrating(3) electrode; a second vibrating electrode(4); a first terminal(12) and a second terminal(13); a first pad;(6a) and a second pad(6b), wherein the piezoelectric substrate is a hexahedron. Yoahida also discloses a first vibrating electrode(3) disposed on a first side of the piezoelectric substrate perpendicular to a thickness direction; and a second vibrating electrode(4) disposed on the second side of the piezoelectric substrate perpendicular to a thickness direction, and faces the first vibrating electrode; Wherein the first pad(6a) and second pad(6b) are respectively disposed in an area having a small vibration displacement on at least one side of the piezoelectric substrate perpendicular to the thickness direction; wherein the first pad is made of an electrical conductor(Ag) and electrically connected to the first vibrating electrode; and the second pad is made of an electrical conductor electrically connecting the second vibrating electrode. Wherein the first and second pad are disposed on the same side.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KBA

February 10, 2003

Phones M. Loughert